

Certificate of Analysis

www.tocris.com

Product Name: NS 19504

Catalog No.: 5276

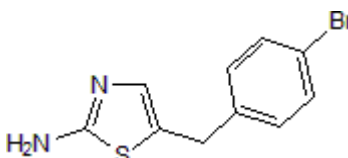
Batch No.: 1

CAS Number: 327062-46-4

IUPAC Name: 5-[(4-Bromophenyl)methyl]-2-thiazolamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₉BrN₂S
Batch Molecular Weight: 269.16
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	44.62	3.37	10.41
Found	44.65	3.41	10.36

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Name: NS 19504

Catalog No.: 5276

Batch No.: 1

CAS Number: 327062-46-4

IUPAC Name: 5-[(4-Bromophenyl)methyl]-2-thiazolamine

Description:

Selective activator of large-conductance Ca²⁺-activated potassium channels (BK_{Ca}, K_{Ca}1.1) (EC₅₀ = 11 μM). Activates BK channels in native smooth muscle cells from guinea pig bladder and reduces spontaneous phasic contractions in bladder strips ex vivo. Displays no effect on contractions induced by a high K⁺ concentration or at 65 other receptors tested, including L- and N- type Ca²⁺ channels, Na_v, K_{ATP} and hERG channels.

Physical and Chemical Properties:

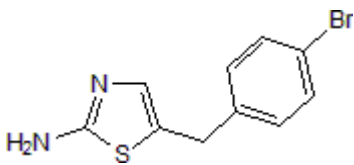
Batch Molecular Formula: C₁₀H₉BrN₂S

Batch Molecular Weight: 269.16

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Nausch et al (2014) NS19504: a novel BK channel activator with relaxing effect on bladder smooth muscle spontaneous phasic contractions. *J.Pharmacol.Exp.Ther.* **350** 520. PMID: 24951278.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956